

#187

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1. Ford Educational Weekly 187  
"DE-LIGHT"  
Produced by Ford Motor Company  
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2. The fight for light, started hundreds of years ago and has produced many interesting devices.
3. But times have changed, thanks to Mr. Edison and others.
4. Tungsten ores, are found in workable quantities principally in Colorado and Southern California in the United States.
5. To get pure tungsten the ore is refined through a series of chemical processes, resulting in a gray powder.- Sorting ore.
6. Making filament of tungsten wire.
7. Tungsten is one of the hardest known metals. Converting ore into a solid bar or ingot.
8. Swaging the ingot. This machine tates 8,000 lusty wallops per minute in its 2 hammers, toughening and elongating the metal.
9. Repeating this operation 40 times the wire is made 65 times its original length, after which the wire takes on a certain "swagger", hence the word "swaging".
10. Drilling diamond dies. 80 hours' work.
11. The tungsten wire, which is graphite coated, is drawn through 44 of these dies, reducing it to size.
12. And placed on spools to be sent to lamp factory.
13. It's an ill wind that blows nobody some good;- blowing bulbs in molds to get proper shape.
14. One end of the tubing is heated and spread open to proper flare.
15. When hot, the glass is forced together forming the button rod.
16. The flange tubing and button rod are joined together, after the wires which carry current to filament are inserted.
17. Placing wire hooks in button, to give filament support.
18. Forming coil filament for a 1,000-watt lamp.
19. In order that the air may be conveniently exhausted, a piece of tubing is fused to the bulb.
20. When this tube is removed it generously leaves a "tip" for the bulb.

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